

Ch 6 Test Review

6.1 Graphing  
(vertex, aos, y-int)  
Max or min

6.2 Solve by graphing *Calculator*  
6.3 Solve by factoring *2nd Calc*  
*Lft+bd? Rt+bd?*

Word Problems Max/Min

6.4 Completing the Square

6.5 Quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Discriminant

6.6 Analyzing Graphs of  
Quadratic Functions (vertex form)

$$x^2 - \text{sum } x + \text{product} = 0$$

Extra Sum and product of roots

$$\text{sum} = -\frac{b}{a} \quad \text{product} = \frac{c}{a} \quad \{4, 5\}$$

6.7 Quadratic Inequalities  
graph

solve

$$\begin{aligned} 4+r &= 9 & x^2 - 9x + k &= 0 \\ r &= 5 & \{4, 5\} & \\ 20 &= k \end{aligned}$$